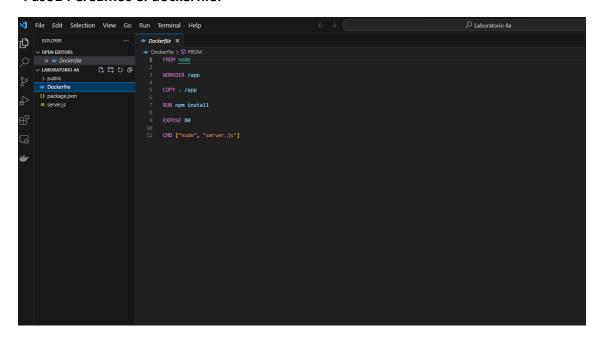
# Iñaki Borrego Bau

## -Laboratorio 4A.

### -Paso1 : Creamos el dockerfile:



## -Paso 2: Creamos la imagen sobre el Dockerfile:

```
PS C:\Users\noseq\OneDrive\Escritorio\laboratorio 4a> docker build .

[+] Building 9.1s (10/10) FINISHED

> [internal] load build definition from Bockerfile

> > transferring dockerfile: 1288

> [internal] load .dockerignore

> > transferring context: 8

> [internal] load metadata for docker.io/library/node:latest

| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load metadata for docker.io/library/node:latest
| [internal] load me
```

### -Paso 3: Buscamos la imagen y creamos un contenedor:

### -Paso 4: Paso 4 abrir otra terminal y vemos el estado con ps -a:

```
# PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

# P C. U.Sers Inoseq One Drive I Escritorio 1. As a doctor ps = 0

CONTAINER ID DIVE COMMAND STATUS PORTS NAMES

Debug Script Content of Control Contr
```

#### -Paso 5: Paramos el con tenedor:

```
PS C:\Users\noseq\OneDrive\Escritorio\Laboratorio 4a> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
bc9b06670e48 cd03c39e73dc "docker-entrypoint.s..." 3 minutes ago Up 3 minutes 80/tcp hungry_knuth

PS C:\Users\noseq\OneDrive\Escritorio\Laboratorio 4a> docker stop bc9

PS C:\Users\noseq\OneDrive\Escritorio\Laboratorio 4a> docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
bc9b06670e48 cd03c39e73dc "docker-entrypoint.s..." 4 minutes ago Exited (137) 5 seconds ago hungry_knuth

PS C:\Users\noseq\OneDrive\Escritorio\Laboratorio 4a> [
```

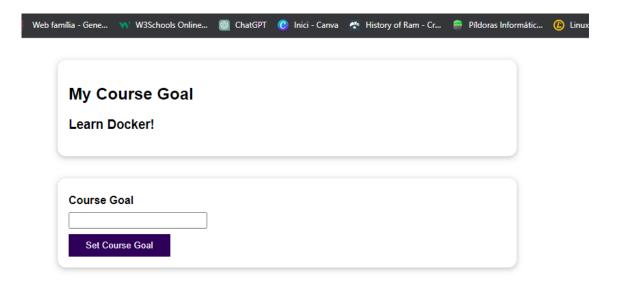
## -Paso 6 : El server aun no va vamos a encenderlo y ponerle una bandera:

```
PROBLEMS OUTPUT DEBUGIONOLE TERMINAL PORTS

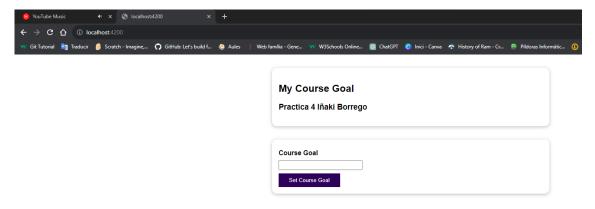
PS C:\Users\noseq\OneDrive\Escritorio\Laboratorio 4a> docker ps
CONTAINER 1D !NMG: COPWND
CREATED
STATUS
PORTS
NAMES
D:\Users\noseq\OneDrive\Escritorio\Laboratorio 4a> docker stop bc9 -t 1
bc9
PS C:\Users\noseq\OneDrive\Escritorio\Laboratorio 4a> docker stop bc9 -t 1
bc9
PS C:\Users\noseq\OneDrive\Escritorio\Laboratorio 4a> docker ps -a
CONTAINER 1D !NMG: COPWND
CREATED
STATUS
PORTS
NAMES
D:\Users\noseq\OneDrive\Escritorio\Laboratorio 4a> docker ps -a
CONTAINER 1D !NMG: COPWND
bc9b06670e48 c093:09e73dc "docker-entrypoint.s." 4 minutes ago Exited (137) 5 seconds ago hungry_knuth

PS C:\Users\noseq\OneDrive\Escritorio\Laboratorio 4a> docker run -p 4200:80 bc9b06670e48
Unable to find image 'bc9b06670e48' active: 'locally'
docker: Error response from daemon: pull access denied for bc9b06670e48, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.

See 'docker run --hp!'
PS C:\Users\noseq\OneDrive\Escritorio\Laboratorio 4a> docker run -p 4200:80 cd83c39e73dc
```



## Paso 7: Captura con mi Frase:



## Practica B:

## -Paso B1: Creamos varios contenedores con la imagen de node:

```
PS C:\Users\noseq> docker run -d -it
                                                                                   -name contenerdor -p 6000:80 node
Unable to find image 'node:latest' locally
latest: Pulling from library/node
90e5e7d8b87a: Already exists
27e1a8ca91d3: Already exists d3a767d1d12e: Already exists
d3a/6/d1012: Already exists
711be5dc5044: Already exists
22956530cc64: Already exists
6e7603afb8fa: Already exists
d2b273c844ac: Already exists
13071e8eda46: Already exists
Digest: sha256:04300613a87512b58a0555a122f35b2fb7a7dd528b6435e87b0d34b67f53a86a
Status: Downloaded newer image for node:latest
614877941def4b61fdf217de849c0700cdc7429a419d466bb16710a2509bbfff
STATUS
6148779410e+4061467217de849267096067429441904060D1671082509DDFFF
PS C:\Users\noseq> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS
614877941def node "docker-entrypoint.s..." 53 seconds ago Up 52 s
PS C:\Users\noseq> docker ps run -d -it contenedor1 -p 6000:80 node
unknown shorthand flag: 'd' in -d
See 'docker ps --help'.
PS C:\Users\noseq> docker run -d -it --name contenerdor1 -p 6500:80 node
33636273fdad4100825550846830b8df14f6d671552eb1862883decbed1136ff
S C:\Users\noseq> docker ps run -d -it --name contenerdor1 -p 6500:80 node
                                                                                                                                                                                                                                 NAMES
                                                                                                                                                                               0.0.0.0:6000->80/tcp
                                                                                                                                            Up 52 seconds
                                                                                                                                                                                                                                contenerdor
PS C:\Users\noseq> docker ps run -d -it contenedor2 -p 7000:80 node unknown shorthand flag: 'd' in -d
 See 'docker ps --help'.
SC:\Users\noseq> docker run -d -it --name contenerdor2 -p 7000:80 node 05lcd04d24fc7d63d65f2b96f1cd131fb3ffc1949b61bdfdc6377304b30b5527
PS C:\Users\noseq> docker ps
CONTAINER ID IMAGE COMMAND
                                                                                                                                              STATUS
                                                                                                                                                                                                                                 NAMES
                                                                                                          CREATED
                                                                                                                                                                                PORTS
                                                     "docker-entrypoint.s.."
"docker-entrypoint.s.."
                                                                                                          2 seconds ago
33 seconds ago
                                                                                                                                              Up 2 seconds
Up 33 seconds
                                                                                                                                                                               0.0.0.0:7000->80/tcp
0.0.0.0:6500->80/tcp
051cd04d24fc
                               node
                                                                                                                                                                                                                                 contenerdor2
 33e3e273fdad
                               node
                                                                                                                                                                                                                                 contenerdor1
                                                     "docker-entrypoint.s..."
                                                                                                          2 minutes ago
 PS C:\Users\nosea>
```

·(He tenido errores de sintaxis pero aquí haciendo Docker ps veremos como he creado e contenedores):

```
S C:\Users\noseq> docker ps
CONTAINER ID
                                                                                 STATUS
                                                            2 seconds ago
33 seconds ago
                                                                                Up 2 seconds
Up 33 seconds
                                                                                                   0.0.0.0:7000->80/tcp
0.0.0.0:6500->80/tcp
051cd04d24fc
                 node
                              "docker-entrypoint.s.."
                                                                                                                               contenerdor2
                              "docker-entrypoint.s.."
33e3e273fdad
                 node
                                                                                                                               contenerdor1
614877941def
                              "docker-entrypoint.s..."
                                                            2 minutes ago
                                                                                                    0.0.0.0:6000->80/tcp
PS C:\Users\nosea>
```

#### Paso B2 Cambiar el nombre:

```
COMMAND
"docker-entrypoint.s.."
CONTAINER ID
                   IMAGE
                                                                 CREATED
051cd04d24fc
                                                                                       Up 13 minutes
Up 14 minutes
                                                                                                            0.0.0.0:7000->80/tcp
0.0.0.0:6500->80/tcp
                   node
                                                                 13 minutes ago
                                                                                                                                           contenerdor2
                                 "docker-entrypoint.s..."
                                                                 14 minutes ago
                   node
614877941def node "docker-entrypoint.s..." 16
PS C:\Users\noseq> docker rename contenerdor prueba
PS C:\Users\noseq> docker rename contenerdor1 prueba1
                                                                 16 minutes ago
                                                                                        Up 16 minutes
                                                                                                             0.0.0.0:6000->80/tcp
                                                                                                                                           contenerdor
PS C:\Users\noseq> docker rename contenerdor2 prueba2
PS C:\Users\noseq> docker ps
                             COMMAND

"docker-entrypoint.s..."
                                                                                       STATUS
CONTAINER ID
                 IMAGE
                                                                                                                                           NAMES
                                                                 CREATED
                                                                                                            0.0.0.0:7000->80/tcp
0.0.0.0:6500->80/tcp
                                                                                       Up 14 minutes
Up 15 minutes
                                                                 14 minutes ago
15 minutes ago
051cd04d24fc
                  node
                                                                                                                                           prueba2
                                "docker-entrypoint.s..."
33e3e273fdad
                  node
                                                                                                                                           prueba1
614877941def
                   node
                                "docker-entrypoint.s.."
                                                                 17 minutes ago
                                                                                        Up 16 minutes
                                                                                                             0.0.0.0:6000->80/tcp
                                                                                                                                           prueba
PS C:\Users\nosea>
```

## -Paso B3: He copiado el archivo\_adjunto.txt

```
PS C:\Users\noseq> docker exec prueba pwd

/
PS C:\Users\noseq> docker cp archivo_adjunto.txt prueba:/
CreateFile C:\Users\noseq\archivo_adjunto.txt: El sistema no puede encontrar el archivo especificado.
PS C:\Users\noseq> docker cp archivo_adjunto.txt prueba:/
Successfully copied 2.05kB to prueba:/
PS C:\Users\noseq>
```

## -Paso B4: Parar un contenedor

\*Se me a cerrado la consola y no echo captura a Docker stop prueba que en la captura de antes estaba encendido como se puede ver. Si echo captura a un Docker ps ahora y se ve los que están encendidos y un Docker ps -a para ver todos los contenedores que tenemos.

```
docker ps
GE COMMAND
PS C:\Users\r
CONTAINER ID
                        IMAGE
                                                                                    CREATED
                                                                                                                 STATUS
                                                                                                                                                                                   NAMES
051cd04d24fc
                        node
                                           docker-entrypoint.s.."
                                                                                    24 minutes ago
                                                                                                                 Up 24 minutes
                                                                                                                                            0.0.0.0:7000->80/tcp
                                                                                                                                                                                   prueba2
 33e3e273fdad
                                          "docker-entrypoint.s.."
                                                                                     24 minutes ago
                                                                                                                 Up 24 minutes
                                                                                                                                            0.0.0.0:6500->80/tcp
                                                                                                                                                                                   prueba1
    C:\Users\noseq>
     TAINER ID
d04d24fc
Se273fdad
                                                                                                                                             PORTS
0.0.0.0:7000->80/tcp
0.0.0.0:6500->80/tcp
                                                                                                 Up 26 minutes
Up 26 minutes
Exited (137) 2 minutes ago
Exited (137) 37 minutes ago
Exited (137) About an hour
                                                                                                                                                                           prueba2
prueba1
                   node
cd03c39e73dc
cd03c39e73dc
                                                                                                                                                                            ruebai
rueba
olly_engelbart
ungry_knuth
```

### -Paso B5: Abrimos una terminal Interactiva (bash):

```
PS C:\Users\noseq> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
051cd04d24fc node "docker-entrypoint.s..." 27 minutes ago Up 27 minutes 0.0.0:7000->80/tcp prueba2
3323273fdad node "docker-entrypoint.s..." 28 minutes ago Up 28 minutes 0.0.0:6500->80/tcp prueba1
PS C:\Users\noseq> docker exec -it prueba1 /bin/bash
root@33e3e273fdad:/#
```

#### -Prueba B6: Verificar Estadísticas del contenedor:

CYTC							
PS C:\Users\no	seq> docke	r stats	prueba2				
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	өв / өв	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	ΘB / ΘB <sub>.</sub>	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME.	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
051cd04d24fc	prueba2	0.00%	10.71MiB / 7.614GiB	0.14%	1.08kB / 0B	0B / 0B	15

<sup>\*</sup>Salimos de docker stats con CONTROL+C

<sup>\*</sup>Salimos de la consola escribiendo EXIT

- Prueba B7: Ver historia de la Imagen:

```
PS C:\Users\noseq> <mark>docker</mark> images
REPOSITORY TAG
                                                                 ST7F
                         IMAGE ID
                                          CREATED
<none>
              <none>
                         cd03c39e73dc
                                          About an hour ago
                                                                 1.11GB
             latest
                         a75ea7321a1a
                                          11 hours ago
                                                                 1.1GB
PS C:\Users\noseq> docker history a75ea7321a1a
              CREATED
                                CREATED BY
                                                                                       SIZE
                                                                                                  COMMENT
IMAGE
                                 /bin/sh -c #(nop) CMD ["node"]
/bin/sh -c #(nop) ENTRYPOINT ["docker-entry...
a75ea7321a1a 11 hours ago
                                                                                       ΘB
<missing>
                11 hours ago
                                                                                       ΘВ
             11 hours ago
                                 /bin/sh -c #(nop) COPY file:4d192565a7220e13...
<missing>
                                                                                       388B
              11 hours ago
11 hours ago
<missing>
                                 /bin/sh -c set -ex && export GNUPGHOME="$(...
                                                                                       7.58MB
                                 /bin/sh -c #(nop) ENV YARN_VERSION=1.22.19
<missing>
                                                                                       ΘB
<missing>
                                 /bin/sh -c ARCH= && dpkgArch="$(dpkg --print...
               11 hours ago
                                                                                       165MB
<missing>
                11 hours ago
                                 /bin/sh -c #(nop) ENV NODE_VERSION=21.3.0
                                                                                       ΘВ
                                 /bin/sh -c groupadd --gid 1000 node && use...
                                                                                       8.94kB
<missing>
               10 days ago
                                 /bin/sh -c set -ex; apt-get update; apt-ge...
/bin/sh -c apt-get update && apt-get install...
<missing>
                11 days ago
                                                                                       587MB
<missing>
                11 days ago
                                                                                       177MB
                                 /bin/sh -c set -eux; apt-get update; apt-g...
/bin/sh -c #(nop) CMD ["bash"]
<missing>
                11 days ago
                                                                                       48.4MB
<missing>
                11 days ago
                                                                                       ΘВ
                11 days ago
                                 /bin/sh -c #(nop) ADD file:39d17d28c5de0bd62...
                                                                                       117MB
<missing>
PS C:\Users\noseq>
```

- Prueba B8: obtener detalles del contenedor mediante Docker Inspect:

```
| Table | Tabl
```

\*Adjunto varias capturas del ultimo paso la primera mas maximizada que se ve el comando la segunda 1 captura mas general aunque es muy grande lo que devuelve y no lo puedo capturar

```
| Variable | Variable
```